

SUBSTITUTE FORM PTO-1449  
(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
10527/003005SERIAL NO.  
08/692,314INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
Robert N. HamlinFILING DATE  
August 5, 1996

GROUP

1772

(37 CFR 1.98(b))

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LN	AA	5	5	0	9	8	9	9	4/23/96	Fan et al.			
	AB	5	4	1	7	6	7	1	5/23/95	Jackson	604	265	9/24/93
	AC	5	4	1	3	5	5	9	5/9/95	Sirham et al.			
	AD	5	3	7	2	6	0	3	12/13/94	Acker et al.			
	AE	5	3	6	6	4	7	2	11/22/94	Hillstead	606	194	9/30/91
	AF	5	3	6	4	3	5	7	11/15/94	Aase			
	AG	5	3	4	2	3	0	7	8/30/94	Euteneuer et al.	604	103	9/14/92
	AH	5	3	3	4	1	4	6	8/2/94	Ozasa	604	96	11/8/91
	AI	5	3	3	0	4	2	8	7/19/94	Wang et al.			
	AJ	5	3	3	0	4	2	9	7/19/94	Noguchi et al.	604	96	1/8/93
	AK	5	3	1	8	5	8	7	6/7/94	Davey	606	194	10/2/92
	AL	5	3	1	8	0	4	1	6/7/94	DuBois et al.	607	119	6/30/92
	AM	5	3	1	2	3	5	6	5/17/94	Engelson et al.	604	164	5/22/90
	AN	5	3	0	6	2	4	6	4/26/94	Sahatjian et al.	604	96	
	AO	5	3	0	4	1	9	7	4/19/94	Pinchuk	606	194	10/7/92
	AP	5	3	0	4	1	7	1	4/19/94	Gregory et al.	606	15	2/2/93
	AQ	5	2	7	9	5	9	4	1/18/94	Jackson	604	265	5/23/90
	AR	5	2	7	9	5	6	0	1/18/94	Morrill et al.	604	96	12/23/91
	AS	5	2	7	7	1	9	9	1/11/94	DuBois et al.	128	772	8/10/92
	AT	5	2	7	2	0	1	2	12/21/93	Opolski	428	423.1	1/29/92
	AU	5	2	6	3	9	6	2	11/23/93	Johnson et al.	606	192	11/19/91
	AV	5	2	5	4	0	9	1	10/19/93	Aliahmad et al.	604	96	1/8/91
	AW	5	2	4	8	3	0	5	9/28/93	Zdrahala	604	280	
LN	AX	5	2	2	6	8	8	0	7/13/93	Martin	604	99	

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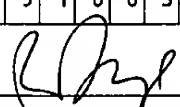
8/12/96

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)  (37 CFR 1.98(b))				APPLICANT Robert N. Hamlin		FILING DATE August 5, 1996	
				GROUP 1778			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
LN	BA 5 2 2 3 2 0 5	6/29/93	Jackowski et al.	264	521		
	BB 5 2 0 9 7 2 8	5/11/93	Kraus et al.	604	96		
	BC 5 2 0 1 7 0 6	4/13/93	Noguchi et al.	604	96		
	BD 5 1 9 5 9 7 2	3/23/93	Inoue	604	103		
	BE 5 1 9 5 9 7 0	3/23/93	Gahara	604	96		
	BF 5 1 9 2 2 9 6	3/93	Bhate et al.				
	BG 5 1 8 3 6 1 3	2/2/93	Edwards	264	171		
	BH 5 1 7 9 1 7 4	1/12/93	Elton	525	409		
	BI 5 1 7 6 6 9 7	1/5/93	Hasson et al.	606	191		
	BJ 5 1 7 1 2 2 1	12/15/92	Samson	604	96		
	BK 5 1 6 3 9 4 9	11/17/92	Bonutti	606	192		
	BL 5 1 6 0 3 2 1	11/3/92	Sahota	604	96		
	BM 5 1 5 6 8 5 7	10/20/92	Wang et al.	425	130		
	BN 5 1 4 7 3 0 2	9/15/92	Euteneuer et al.	604	103		
	BO 5 1 3 7 5 1 2	8/11/92	Burns et al.	606	96		
	BP 5 1 2 5 9 1 3	6/30/92	Quakenbush				
	BQ 5 1 1 6 3 1 8	5/26/92	Hillstead				
	BR 5 1 1 4 4 2 3	5/19/92	Kasprzyk et al.				
	BS 5 1 0 8 4 2 0	4/28/92	Marks	606	213		
	BT 5 1 0 8 4 1 5	4/28/92	Pinchuk et al.	606	194		
	BU 5 1 0 2 4 1 6	4/7/92	Rock	606	194		
	BV 5 1 0 0 9 9 2	3/31/92	Cohn et al.	528	26		
	BW 5 1 0 0 7 2 1	3/31/92	Akao	428	218		
LN	BX 5 1 0 0 3 8 6	3/92	Inoue				
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August 5, 1996GROUP  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LN	CA	5	1	0	0	3	8	1	3/31/92	Burns	604	96	
	CB	5	0	9	4	7	9	9	3/10/92	Takashige et al.	264	514	
	CC	5	0	9	3	1	6	4	3/1992	Bauer et al.			
	CD	5	0	9	1	2	0	5	2/25/92	Fan	427	2	
	CE	5	0	9	0	9	5	8	2/25/92	Sahota	604	98	
	CF	5	0	8	7	2	4	6	2/11/92	Smith	604	96	
	CG	5	0	8	7	2	4	4	2/11/92	Wolinsky et al.	604	53	
	CH	5	0	8	4	3	1	5	1/28/92	Karimi et al.	428	36.6	
	CI	5	0	7	8	7	0	2	1/7/92	Pomeranz			
	CJ	5	0	7	7	3	5	2	12/31/91	Elton	525	409	
	CK	5	0	7	5	1	5	2	12/24/91	Tsukuda et al.	428	204	
	CL	5	0	7	4	8	4	5	12/91	Miraki et al.	604	15	
	CM	5	0	7	4	8	4	0	12/24/91	Yoon	604	15	
	CN	5	0	7	1	6	8	6	12/10/91	Genske et al.	428	35.7	
	CO	5	0	7	1	4	0	6	12/10/91	Jang	604	96	
	CP	5	0	6	1	4	2	4	10/29/91	Karimi et al.	264	171	
	CQ	5	0	5	9	2	6	9	10/22/91	Hu et al.	156	244.11	
	CR	5	0	5	7	1	0	6	10/15/91	Kasevich et al.	606	33	
	CS	5	0	5	7	0	9	2	10/15/91	Webster, Jr.	604	282	
	CT	5	0	4	9	1	3	2	9/17/91	Shaffer et al.	604	101	
	CU	5	0	4	2	9	8	5	8/27/91	Elliott et al.	606	192	
	CV	5	0	4	1	1	2	5	8/20/91	Montano, Jr.	606	192	
	CW	5	0	4	1	1	0	0	8/20/91	Rowland et al.	604	265	
	CX	5	0	4	1	0	8	9	8/20/91	Muelier et al.	604	96	
LN	CY	5	0	3	7	3	9	2	8/6/91	Hillstead	604	96	

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LN	DA	5	0	2	6	6	0	7	6/25/91	Kiezulas			
	DB	5	0	1	7	3	2	5	5/21/91	Jackowski et al.	264	521	
	DC	5	0	1	5	2	3	1	5/14/91	Keith et al.	604	96	
	DD	5	0	0	6	1	1	9	4/19/91	Acker et al.	606	27	
	DE	5	0	0	2	5	5	6	3/26/91	Ishida et al.	606	191	
	DF	5	0	0	2	5	3	1	3/26/91	Bonzel	604	96	
	DG	5	0	0	0	7	3	4	3/19/91	Boussignac et al.	604	96	
	DH	4	9	9	5	8	6	8	3/26/91	Brazier	604	105	
	DI	4	9	9	4	0	7	2	2/19/91	Bhate et al.			
	DJ	4	9	9	4	0	4	7	2/19/91	Walker et al.	606	264	
	DK	4	9	9	4	0	3	3	2/19/91	Shockey et al.	604	101	
	DL	4	9	8	6	8	3	0	1/22/91	Owens et al.	606	194	
	DM	4	9	7	3	3	0	1	11/27/90	Nissenkorn	604	08	
	DN	4	9	6	4	8	5	3	10/23/90	Sugiyama et al.	604	96	
	DO	4	9	6	3	3	1	3	10/16/90	Noddin et al.	264	573	
	DP	4	9	6	3	3	0	6	10/16/90	Weldon	264	101	
	DQ	4	9	6	0	4	1	0	10/2/90	Pinchuk	604	96	
	DR	4	9	5	4	1	2	6	9/4/90	Wallsten	600	36	
	DS	4	9	5	0	2	3	9	8/21/90	Gahara et al.	604	96	
	DT	4	9	5	0	2	2	7	8/21/90	Savin et al.	604	8	
	DU	4	9	4	6	4	6	6	8/90	Pinchuk et al.	604	96	
	DV	4	9	4	6	4	6	4	8/1/90	Pevsner	606	192	
	DW	4	9	4	1	8	7	7	7/17/90	Montano, Jr.	604	96	
	DX	4	9	3	8	6	7	6	7/3/90	Jackowski et al.	425	140	
	DY	4	9	3	4	9	9	9	6/19/90	Bader	600	29	
	DZ	4	9	3	3	1	7	8	6/12/90	Capelli	424	78	

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EXAMINER INITIAL	EA	4	9	2	3	4	5	0	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
29	EA	4	9	2	3	4	5	0	5/8/90	Maeda et al.	604	265	
	EB	4	9	2	1	4	8	3	5/1/90	Wijay et al.	604	96	
	EC	4	9	2	1	4	7	9	5/1/90	Grayzel			
	ED	4	9	1	3	7	0	1	4/3/90	Tower	604	103	
	EE	4	9	0	9	2	5	2	3/20/90	Goldberger	606	194	
	EF	4	9	0	6	2	4	1	3/6/90	Noddin et al.	606	194	
	EG	4	9	0	6	2	3	7	3/6/90	Johansson et al.	604	265	
	EH	4	9	0	0	3	0	3	2/13/90	Lemelson	604	54	
	EI	4	8	9	8	5	9	1	2/6/90	Jang et al.	604	282	
	EJ	4	8	9	6	6	6	9	1/30/90	Bhate et al.	606	194	
	EK	4	8	8	6	0	6	2	12/12/89	Wiktor	128	343	
	EL	4	8	8	0	6	8	2	11/14/89	Hazelton et al.	428	152	
	EM	4	8	7	8	4	9	5	11/7/89	Grayzel	128	344	
	EN	4	8	7	1	0	9	4	10/3/89	Gall et al.	222	386	
	EO	4	8	6	9	2	6	3	9/26/89	Segal et al.	128	692	
	EP	4	8	6	8	0	4	4	9/19/89	Tanaka et al.	428	304.4	
	EQ	4	8	6	3	4	2	6	9/5/89	Ferragamo et al.	604	93	
	ER	4	8	5	7	3	9	3	8/15/89	Kato et al.	428	289	
	ES	4	8	5	6	5	1	6	8/15/89	Hillstead	128	343	
	ET	4	8	4	6	8	1	2	7/11/89	Walker et al.			
	EU	4	8	4	0	6	2	3	6/20/89	Quackenbush	604	280	
	EV	4	8	3	8	8	7	6	6/13/89	Wong et al.	604	265	
	EW	4	8	3	5	0	8	9	5/83	Bonnebat			
	EX	4	8	3	4	7	2	1	5/30/89	Onohara et al.	604	266	
29	EY	4	8	3	4	7	0	2	5/30/89	Rocco			
EXAMINER										DATE CONSIDERED			
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EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RL	FA	4	8	2	1	7	2	2	4/18/89	Miller et al.	128	344	
	FB	4	8	1	9	7	5	1	4/11/89	Shimada et al.	128	344	
	FC	4	8	1	8	5	9	2	4/4/89	Ossian	428	216	
	FD	4	8	1	6	3	3	9	3/28/89	Tu et al.	428	421	
	FE	4	8	1	4	2	3	1	3/21/89	Onohara et al.	428	425.5	
	FF	4	8	1	1	7	3	7	3/14/89	Rydell	128	344	
	FG	4	8	0	7	6	2	6	2/28/89	McGirr			
	FH	4	8	0	1	2	9	7	1/31/89	Mueller	604	280	
	FI	4	8	0	0	8	8	2	1/31/89	Gianturco	128	343	
	FJ	4	7	9	6	6	2	9	1/10/89	Grayzel	128	344	
	FK	4	7	9	5	4	5	8	1/3/89	Regan	623	1	
	FL	4	7	9	0	8	3	1	12/13/88	Skribiski			
	FM	4	7	8	7	3	8	8	11/29/88	Hofmann	128	344	
	FN	4	7	8	6	5	5	6	11/22/88	Hu et al.	428	412	
	FO	4	7	7	8	6	9	7	10/1988	Geneske et al.			
	FP	4	7	7	6	3	3	7	10/11/88	Palmaz	128	344	
	FQ	4	7	7	1	7	7	8	9/20/88	Mar	128	344	
	FR	4	7	7	1	7	7	6	9/20/88	Powell et al.	128	344	
	FS	4	7	6	3	6	5	3	8/16/88	Rockey	128	344	
	FT	4	7	6	2	5	8	9	8/9/88	Akiyama et al.	156	307.3	
	FU	4	7	6	2	1	3	0	8/9/88	Fogarty et al.	128	348.1	
	FV	4	7	6	2	1	2	9	8/9/88	Bonzel	128	344	
	FW	4	7	5	3	7	6	5	6/28/88	Pande	264	149	
	FX	4	7	5	1	9	2	4	6/21/88	Hammerschmidt et al.	128	207.15	
RL	FY	4	7	4	3	2	5	7	5/19/88	Tormala et al.	623	16	

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3306 1772

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EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LA	GA	4	7	3	7	2	1	9	4/12/88	Taller et al.	156	215	
	GB	4	7	3	2	1	5	2	3/22/88	Wallsten et al.	128	343	
	GC	4	7	2	3	9	3	6	2/9/88	Buchbinder et al.	604	95	
	GD	4	7	1	0	1	8	1	12/1/87	Fuqua	604	265	
	GE	4	7	0	6	6	7	0	11/17/89	Andersen et al.	128	344	
	GF	4	7	0	5	7	0	9	11/10/87	Vailancourt			
	GG	4	7	0	5	5	1	7	11/10/87	DiPesa, Jr.	623	12	
	GH	4	7	0	5	5	0	2	11/10/87	Patel	604	49	
	GI	4	7	0	2	2	5	2	10/87	Brooks et al.			
	GJ	4	6	9	9	6	1	1	10/13/87	Bowden			
	GK	4	6	9	3	2	4	3	9/15/87	Buras	128	207.15	
	GL	4	6	8	6	1	2	4	8/11/87	Onohara et al.	428	35	
	GM	4	6	8	5	4	5	8	8/11/87	Leckrone	128	303.1	
	GN	4	6	8	5	4	4	7	8/11/87	Iversen et al.	128	1R	
	GO	4	6	8	1	5	6	4	7/21/87	Landreneau	604	97	
	GP	4	6	7	7	0	1	7	6/30/87	DeAntonis et al.	428	214	
	GQ	4	6	6	4	6	5	7	5/12/87	Williamitis et al.	604	265	
	GR	4	6	6	0	5	6	0	4/28/87	Klein	128	344	
	GS	4	6	5	7	0	2	4	4/14/87	Coneys	128	658	
	GT	4	6	5	6	0	7	0	4/7/87	Nyberg et al.	428	36	
	GU	4	6	5	5	7	7	1	4/7/87	Wallsten	623	1	
	GV	4	6	5	5	7	4	5	4/7/87	Corbett	604	49	
	GW	4	6	5	1	7	2	1	3/24/87	Mikulich et al.	128	79	
	GX	4	6	5	0	4	6	6	3/17/87	Luther	604	95	
	GY	4	6	4	8	8	7	1	3/10/87	Jacob	604	149	
GA	GZ	4	6	4	2	2	6	7	2/10/87	Creasy et al.	428	413	

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RI	HA	4	6	4	0	8	5	2	2/3/87	Ossian	428	35	
	HB	4	6	3	8	8	0	5	1/27/87	Powell	128	344	
	HC	4	6	3	7	3	9	6	1/20/87	Cook	128	344	
	HD	4	6	3	6	4	4	2	1/13/87	Beavers et al.			
	HE	4	6	3	6	3	4	6	1/13/87	Gold et al.			
	HF	4	6	3	4	6	1	5	1/6/87	Versteegh et al.	428	36	
	HG	4	6	2	7	4	3	6	12/9/86	Leckrone	128	303.1	
	HH	4	6	1	4	1	8	8	9/30/86	Bazell et al.	128	348.1	
	HI	4	6	1	3	5	1	7	9/23/86	Williams et al.	427	2	
	HJ	4	6	1	0	6	6	2	9/9/86	Weikl et al.	604	53	
	HK	4	6	0	6	3	4	7	8/19/86	Fogarty et al.	128	344	
	HL	4	5	9	6	5	6	3	6/24/86	Pande	604	264	
	HM	4	5	8	5	0	0	0	4/29/86	Hershenson	128	345	
	HN	4	5	8	2	7	6	2	4/15/86	Onohara et al.	428	447	
	HO	4	5	8	1	3	9	0	4/8/86	Flynn	523	112	
	HP	4	5	7	9	8	7	9	4/1/86	Flynn	523	112	
	HQ	4	5	7	8	0	2	4	3/25/86	Sicka et al.	425	114	
	HR	4	5	7	6	7	7	2	3/18/86	Carpenter	264	154	
	HS	4	5	7	6	1	4	2	3/18/86	Schiff	128	1D	
	HT	4	5	7	3	9	6	6	3/4/86	Weikl et al.	604	53	
	HU	4	5	7	3	4	7	0	3/4/86	Samson et al.	128	344	
	HV	4	5	7	2	1	8	6	2/25/86	Gould et al.	128	341	
	HW	4	5	5	9	9	5	1	12/24/85	Dahl et al.	128	642	
	HX	4	5	5	3	5	4	5	11/19/85	Maass et al.	128	341	
RI	HY	4	5	5	1	2	9	2	11/5/85	Fletcher et al.	264	139	

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(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
10527/003005SERIAL NO.  
08/692,314INFORMATION DISCLOSURE  
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(Use several sheets if necessary)APPLICANT  
Robert N. HamlinFILING DATE  
August 5, 1996

GROUP

1778

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RA	IA	4	5	4	0	4	0	4	9/10/85	Wolvek	604	96	
	IB	4	5	3	1	9	9	7	7/30/85	Johnston	156	498	
	IC	4	5	2	1	5	6	4	6/4/85	Solomon et al.	525	54.1	
	ID	4	4	9	7	0	7	4	2/5/85	Rey et al.	3	1	
	IE	4	4	8	4	9	7	1	11/27/84	Wang	156	244.14	
	IF	4	4	7	9	4	9	7	10/30/84	Fogarty et al.	128	344	
	IG	4	4	7	2	1	2	9	9/18/84	Siard	425	381	
	IH	4	4	5	6	0	1	1	6/26/84	Warnecke	128	325	
	II	4	4	5	1	2	5	6	5/29/84	Weikl et al.	128	325	
	IJ	4	4	3	9	3	9	4	3/27/84	Appleyard	264	535	
	IK	4	4	3	4	7	9	7	3/6/84	Silander	128	343	
	IL	4	4	2	4	2	4	2	1/3/84	Barbee	428	35	
	IM	4	4	2	3	7	2	5	1/3/84	Baran et al.	128	207.15	
	IN	4	4	2	2	4	4	7	12/27/83	Schiff	128	10	
	IO	4	4	1	7	5	7	6	11/29/83	Baran	128	207.15	
	IP	4	4	1	1	0	5	5	10/25/83	Simpson et al.			
	IQ	4	4	0	9	3	6	4	10/11/83	Schmukler et al.			
	IR	4	4	0	6	6	5	6	9/27/83	Hattler et al.	604	280	
	IS	4	4	0	6	6	5	3	9/83	Nunez	604	103	
	IT	4	4	0	3	6	1	2	9/13/83	Fogarty	128	344	
	IU	4	3	8	5	0	8	9	5/24/83	Bonnebat et al.	428	35	
	IV	4	3	7	8	8	0	3	4/5/83	Takagi et al.	604	280	
	IW	4	3	4	6	6	9	8	8/31/82	Hanson et al.	128	10	
	IX	4	3	3	8	9	4	2	7/13/82	Fogarty			
	IY	4	3	3	0	4	9	7	5/18/82	Agdanowski	264	150	
RA	IZ	4	3	2	7	7	3	6	5/4/82	Inoue	128	349B	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)  (37 CFR 1.98(b))				APPLICANT Robert N. Hamlin		GROUP <div style="font-size: 1.5em; margin-top: 10px;">178</div>	
				FILING DATE August 5, 1996			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
27	JA 4 3 2 6 5 3 2	4/27/82	Hammar	128	349R		
	JB 4 3 2 4 2 6 2	4/13/82	Hall	128	756		
	JC 4 3 2 3 0 7 1	4/6/82	Simpson et al.	128	343		
	JD 4 3 0 6 9 9 8	12/22/81	Wenzel et al.	260	13		
	JE 4 3 0 1 0 5 3	11/17/81	Wolfrey	260	29.2		
	JF 4 3 0 0 5 5 0	11/17/81	Gandi et al.	128	207.18		
	JG 4 2 9 9 2 2 6	11/10/81	Banka	128	344		
	JH 4 2 9 6 1 5 6	10/20/81	Lustig et al.	428	35		
	JI 4 2 9 2 9 7 4	10/6/81	Fogarty et al.	128	344		
	JJ 4 2 8 2 8 7 6	8/11/81	Flynn	128	349		
	JK 4 2 7 1 8 3 9	6/9/81	Fogarty et al.	128	344		
	JL 4 2 6 5 2 7 6	5/5/81	Hatada et al.	138	127		
	JM 4 2 6 3 1 8 8	4/21/81	Hampton et al.	260	29.2		
	JN 4 2 6 1 3 3 9	4/14/81	Hanson et al.	128	10		
	JO 4 2 5 6 7 8 9	3/17/81	Suzuki et al.	428	35		
	JP 4 2 5 1 3 0 5	2/81	Becker et al.	264	515		
	JQ 4 2 4 4 9 1 4	1/13/81	Ranalli et al.	264	515		
	JR 4 2 3 8 4 4 3	12/9/80	Levy	264	210.7		
	JS 4 2 3 3 0 2 2	11/11/80	Brady et al.	425	525		
	JT 4 2 2 2 3 8 4	9/16/80	Birtwell	128	349B		
	JU 4 2 1 3 4 6 1	7/22/80	Pevsner	128	348		
	JV 4 1 9 8 9 8 1	4/22/80	Sinnreich	128	344		
	JW 4 1 9 5 6 3 7	4/1/80	Gruntzig et al.	128	348		
	JX 4 1 8 3 1 0 2	1/15/80	Guiset	3	1.4		
27	JY 4 1 8 2 4 5 7	1/8/80	Yamada	215	1		
EXAMINER <div style="font-size: 1.5em; margin-top: 10px;">R2e</div>				DATE CONSIDERED <div style="font-size: 1.5em; margin-top: 10px;">8/10/90</div>			
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(37 CFR 1.98(b))

FILING DATE  
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GROUP

1770

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
27	KA	4	1	7	4	7	8	3	11/20/79	Abe et al.	215	TU	
	KB	4	1	4	4	2	9	8	3/13/79	Lee	264	532	
	KC	4	1	4	1	3	6	4	2/27/79	Schultze	128	3498	
	KD	4	1	4	0	1	2	6	2/20/79	Choudhury	126	323	
	KE	4	1	0	5	0	2	2	8/8/78	Antoshkiw et al.	128	2.05	
	KF	4	0	8	5	7	5	7	4/25/78	Pevsner	128	325	
	KG	4	0	7	9	8	5	0	3/21/78	Suzuki et al.	215	1C	
	KH	4	0	6	1	7	0	7	12/6/77	Nohtomi et al.	264	95	
	KI	4	0	4	7	8	6	8	9/13/77	Kudo et al.	425	133-4	
	KJ	4	0	3	5	5	3	4	7/12/77	Nyberg	428	36	
	KK	4	0	1	1	1	8	9	3/8/77	Keil	266	53.6	
	KL	4	0	0	3	3	8	2	1/75	Glover et al.	156	40	
	KM	3	9	9	6	9	3	8	12/14/76	Clark, III	128	348	
	KN	3	9	6	2	5	1	9	6/8/76	Rusch et al.	428	409	
	KO	3	9	5	9	4	2	6	5/25/76	Seefluth	264	94	
	KP	3	9	2	4	6	3	4	12/9/75	Taylor et al.	128	3498	
	KQ	3	8	8	9	6	8	5	6/17/75	Miller, Jr. et al.	128	548	
	KR	3	8	3	7	3	4	7	9/24/74	Tower	128	404	
	KS	3	8	3	3	0	0	4	9/3/74	Vazquez et al.	128	3498	
	KT	3	8	1	4	1	3	7	6/4/74	Martinez	435	103	
	KU	3	8	0	7	4	0	8	4/30/74	Summers			
	KV	3	7	9	9	1	7	2	3/26/74	Szpur	128	3498	
	KW	3	7	7	1	5	2	7	11/13/73	Ruisi			
20	KX	3	7	6	9	9	8	4	11/6/73	Muench	128	404	

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1778

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
20	LA	3	7	4	5	1	5	0	7/10/73	Corsover	260	75	
	LB	3	7	3	3	3	0	9	5/15/73	Wyeth et al.	260	75	
	LC	3	7	3	1	6	9	2	5/8/73	Goodyear	128	351	
	LD	3	7	0	7	1	5	1	12/26/72	Jackson	128	351	
	LE	3	7	0	7	1	4	6	12/26/72	Cook et al.			
	LF	3	6	1	8	6	1	4	11/9/71	Flynn	128	348	
	LG	3	5	6	2	3	5	2	2/9/71	Nyilas	260	924	
	LH	3	5	6	1	4	9	3	2/9/71	Maillard	138	441	
	LI	3	5	4	3	7	5	9	12/1/70	McWhorter	128	349	
	LJ	3	5	4	3	7	5	8	12/1/70	McWhorter	128	349	
	LK	3	5	3	9	6	7	4	11/10/70	Dereniuk et al.	264	430	
	LL	3	4	3	2	5	9	1	3/11/69	Heffelfinger	264	289	
	LM	3	4	2	6	7	4	4	2/11/69	Ball	128	T	
	LN	3	3	4	8	5	4	2	10/24/67	Jackson	128	484	
	LO	3	3	0	4	3	5	3	2/14/67	Harauneian	264	98	
	LP	3	2	9	2	6	2	7	12/20/66	Harauneian	128	349	
	LQ	3	1	7	3	4	1	8	3/16/65	Baran	128	351	
	LR	3	0	5	3	2	5	7	9/11/62	Birtwell	128	349	
	LS	3	0	4	5	6	7	7	7/24/62	Wallace	128	349	
	LT	2	9	8	1	2	5	4	4/25/61	Vanderbilt	128	350	
	LU	2	9	3	6	7	6	0	5/17/60	Gants	128	349	
	LV	2	8	2	3	4	2	1	2/18/58	Scarlett	128	57	
	LW	2	7	9	9	2	7	3	7/16/57	Oddo	128	325	
20	LX	2	6	9	0	5	9	5	10/5/54	Raiche	128	597	

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
27	MA	2	6	8	8	3	2	9	9/7/54	Wallace	128	349	
	MB	2	6	1	6	4	2	9	11/4/52	Merenlender	128	35C	
	MC	2	5	4	8	6	0	2	4/10/51	Greenburg	128	34	
	MD	2	4	9	9	0	4	5	2/28/50	Walker et al.	128	261	
	ME	1	6	9	0	9	9	5	11/6/28	Pratt			
	MF	1	6	4	3	2	8	9	9/20/27	Peglay			
20	MG	R	E	3	3	5	6	1	3/26/91	Levy	428	36-92	
	MH												

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27

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GROUP

1278

(37 CFR 1.98(b))

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
NA	998,035	1/14/52	France					
NB	2328482	5/20/77	France					
NC	36 38 828 A1	5/19/88	Germany					
ND	31 24 198 A1	4/29/92	Germany					
NE	28 48 854 A1	5/23/79	Germany					
NF	0 461 474 A1	12/18/91	Europe					
NG	0 457 456 A1	11/21/91	Europe					
NH	0 439 202 A2	7/31/91	Europe					
NI	0 428 479 A1	5/22/91	Europe					
NJ	0 419 291 A1	3/27/91	Europe					
NK	0 414 350 B1	3/7/90	Europe					
NL	0 383 429	8/22/90	Europe					
NM	0 380 102 A1	8/1/90	Europe					
NN	0 359 489 A2	3/21/90	Europe					
NO	0 358 445 A2	3/14/90	Europe					
NP	0 357 562	3/7/90	Europe					
NQ	0 329 041 A2	8/23/89	Europe					
NR	0 303 487 A2	2/15/89	Europe					
NS	0 292 587 A1	11/30/88	Europe					
NT	0 276 908 A1	8/3/88	Europe					

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1778

(37 CFR 1.98(b))

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AN	OA	0 266 957 A2	5/11/88	Europe				
	OB	0 201 331 A2	11/12/86	Europe				
	OC	0 174 206 A2	3/12/86	Europe				
	OD	0 166 998	1/8/86	Europe				
	OE	0 101 216 A2	2/22/84	Europe				
	OF	WO 92/11893	7/23/92	PCT				
	OG	WO 91/17788	11/28/91	PCT				
	OH	WO 91/04068	4/4/91	PCT				
	OI	WO 84/01327	4/12/84	PCT				
	OJ	2 078 114 A	1/6/82	Great Britain				
	OK	2 077 111 A	12/16/81	Great Britain				
	OL	2 140 437 A	11/28/84	Great Britain				
	OM	1,533,204	11/22/78	Great Britain				
	ON	1,556,242	11/21/79	Great Britain				
	OO	693,244	6/24/53	Great Britain				
	OP	1,600,963	10/21/81	Great Britain				
	OQ	2298121	5/89	Great Britain				
	OR	2209121	5/89	Great Britain				
	OS	2,130,093	5/31/84	Great Britain				
	OT	2 163 386 A	2/26/86	Great Britain				
	OU	1477423	5/7/89	Soviet Union				
AN	OV	069826 A	1/30/84	Soviet Union				
LA	OW	1477423	5/89	Soviet Union				

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)  (37 CFR 1.98(b))				APPLICANT Robert N. Hamlin		FILING DATE August 5, 1996		
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION								
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<div style="font-size: 2em;">LN</div>	PA	63 087219	4/18/88	Japan (English Abstract)				
	PB	58 38778	3/7/83	Japan				
	PC	53 042256	4/17/78	Japan (English Abstract)				
	PD	51 084877	7/24/76	Japan				
	PE	50 75256	6/20/75	Japan (English Abstract)				
	PF	4 34590	2/5/92	Japan				
	PG	3 277374	12/9/91	Japan				
	PH	5345353	4/78	Japan				
	PI	2 43036	2/13/90	Japan				
EXAMINER <div style="font-size: 1.5em;">LN</div>				DATE CONSIDERED <div style="font-size: 1.5em;">8/10/90</div>				
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)  (37 CFR 1.98(b))				APPLICANT Robert N. Hamlin		GROUP 072	
				FILING DATE August 5, 1996			
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
21	QA	Adrova et al., "Polymides: A new Class of Heat-Resistant Polymers", Academy of Sciences of the USSR, Chapter 1, "Synthesis and Transformations of Polymides", pp. 1-36, 1969					
	QB	Article from Design Dvine Hoestche Celen USC, pp. 2-2, 3-1 to 3-4, 1991					
	QC	Article from Plastics & Rubber Weekly, "Chemistry Advance Offers New Materials", p. 8, "One Piece Catheter", p. 8, December 3, 1988					
	QD	Article from Plastics and Rubber International, "Medical Uses Of Polymers", Vol. 11, No. 3, June 1986					
	QE	Articles from Plastics Technology, "Multi-Lumen Medical Tubing Line" and "Satellite Extruders for Coextrusion", pp. 39-41, August, 1987					
	QF	"Award Caps Bottle's Introduction", USA TODAY, Friday, October 7, 1983					
	QG	Broad, "Plastics Revolution: A Rush of New Uses", The New York Times, Tuesday, November 1, 1983					
	QH	Carley, "A Plastics Primer", Modern Plastics Encyclopedia, pp. 4-8, 1988					
	QI	Chin et al., "Long-term Results of Intraoperative Balloon Dilatation", The Journal of Cardiovascular Surgery, 30:454-458, 1989					
	QJ	Davey, "Pleated Balloon Catheter", Biomedical Materials, April, 1991					
	QK	Dobrin, "Balloon Embolectomy Catheters in Small Arteris, I Lateral Wall Pressures and Shear Forces", Surgery, Vol. 90, No. 2, pp. 177-185, August 1981					
	QL	Elastomerics, EuroNews by Maurice Botwell, "DuPont Uses New Design Concepts To Boost TP Elastomers In Europe", pp. 38-39, November, 1986					
21	QM	Encyclopedia of Polymer Science and Engineering, Volume 2, "Biaxial Orientation, pp. 339-373					
EXAMINER B. J. [Signature]				DATE CONSIDERED 8/10/90			
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
27	RA	"Extruded Tubing is Called on to Perform More Complex and Critical Surgical Jobs", Modern Plastics International, pp. 40-41, 1990					
	RB	"Film Laminate Key to Record Setting Balloon Flight", Plastics Design Forum, pp. 66-68, March/April 1988					
	RC	Fogarty et al., "Intraoperative Coronary Artery Balloon Catheter Dilatation", American Heart Journal Vol. 107, No. 4, pp. 845-851, April, 1984					
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	RJ	Gruntzig et al., "Technique of Percutaneous Transluminal Angioplasty with the Gruntzig Balloon Catheter", American Journal of Roentgenology, Vol. 132, No. 4, pp. 547-552, April 1979					
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20	RM	Jain et al., "In Vivo Assessment of Vascular Dilatation During Percutaneous Transluminal Coronary Angioplasty," American Journal of Cardiology, 60:968-982, November, 1987					
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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)  (37 CFR 1.98(b))				APPLICANT Robert N. Hamlin		GROUP <i>1772</i>	
				FILING DATE August 5, 1996			
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
<i>27</i>	SA	Irwin, Belcher, Bruning and Suit, Modern Plastics Encyclopedia, pp. 203-210, 1988					
	SB	Jain et al., "Effect of Inflation Pressures on Coronary Angioplasty Balloons", American Journal of Cardiology, 57:26-28, January 1, 1986					
	SC	Jekell et al., "Balloon Catheters", Acta Radiological Diagnosis, 21:47-52, 1980					
	SD	Jensen, "Double-Lumen Balloon Catheter", Acta Radiological Diagnosis, 17:886-890, November 1976					
	SE	Katzen et al., "Percutaneous Transluminal Angioplasty With the Gruntzig Balloon Catheter", Arch Surg., Vol. 114, No. 12, pp. 1389-1399, June 1979					
	SF	Kennedy et al., "Interventional Coronary Arteriography", Annual Review of Medicing: Selected Topics in the Clinical Sciences, 35:513-516, 1984					
	SG	Kent et al., "Percutaneous Transluminal Coronary Angioplasty: Report From...Blood Institute", The American Journal of Cardiology, Vol. 49, pp. 2011-2020, June 1982					
	SH	Kinney et al., "Shear Force in Angioplasty: Its Relation to Catheter Design and Function", American Journal of Roentgenology, 144:115-122, January 1985					
	SI	LeMay et al., "Pinhole Balloon Rupture During Coronary Angioplasty Causing Rupture of the Coronary Artery", Catheterization and Cardiovascular Diagnosis 19:91-92, 1990					
	SJ	Letter from Modern Plastics, "Coextrusion Measurement by IR Sensors", June 1984 14:8					
	SK	Levy, "Improved Dilation Catheter Balloons", Journal of Clinical Energy, pp. 291-296, July/August 1986					
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<i>27</i>	SM	"New Silicone-modified TPE Combined Best of Both Worlds", Biomedical Elastomers, pp. 28-30, November 1988					
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)  (37 CFR 1.98(b))				APPLICANT Robert N. Hamlin		GROUP 1778	
				FILING DATE August 5, 1996			
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
21	TA	Palmaz et al., "Expandable Intraluminal Graft: A Preliminary Study", Radiology, Vol. 156					
		No. 1, July 1985					
	TB	Palmaz et al., "Expandable Intrahepatic Portacaval Shunt Stents: Early Experience in the Dog", AJR					
		145:821-825, October 1985					
	TC	Parker, "Coextruded Composite Film", Modern Plastics Encyclopedia, Oct. 1973, pp. 155 & 156					
	TD	"Polymer Structure, Properties and Applications," Rudolph D. Deanin, Ph.D., Professor of Plastics, Lowell					
		Technological Institute, Table of Contents and pp. 196-220					
	TE	Radiology, Vol. 115, No. 3, June 1975					
	TF	Reckner, "Testing by ASTM Methods", Modern Plastics Encyclopedia, pp. 318-320, 1988					
	TG	"Rigid Plastics Are Getting a Foot in the Kitchen Door", CHEMICAL WEEK, October 12, 1983					
	TH	Shedd, Rader, Edenbaum et al., Willwerth et al., Gabbett, Peters, Tomanek et al., Clark, Modern					
		Plastics Encyclopedia, pp. 93-109, 1988					
	TI	Sweeting et al., "Auxiliary Film Treatments" & "Polyethylene Terephthalate Film Structure and Analysis",					
		The Science and Technology of Polymer Films, Vol. II John Wiley & Sons, Inc., pp. 639, 1971					
	TJ	Supplements to Circulation, An Official Journal of the American Heart Association, Vols. 53 and 54,					
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	TD	"Surface Analysis of Biomedical Materials and Devices - Part 1", Biomedical Polymers, Vol. 4,					
		No. 7, pp. 1-15, 1988					
	TL	"The Gamma Bottle", Food & Drug Packaging, Vol. 47, No. 10, October 1983					
21	TM	Wholey, "A Newly Designed Angioplasty Catheter: 'The Gemini Balloon'", CardioVascular and Interventional					
		Radiology, 11:42-44, 1988					
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## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

27	UA	Woods, "Polyurethanes" and Torkelson "Silicones", Modern Plastics Encyclopedia, pp. 122-124, 1988
27	UB	Trotta Interference No. 103,502 and attachments
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## U.S. PATENT DOCUMENTS

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	AA	5 5 0 9 8 9 9	4/23/96	Fan et al.			
	AB	5 4 1 7 6 7 1	5/23/95	Jackson	604	265	9/24/93
	AC	5 4 1 3 5 5 9	5/9/95	Sirham et al.			
	AD	5 3 7 2 0 0 3	12/13/94	Acker et al.			
	AE	5 3 6 6 4 7 2	11/22/94	Hillstead	606	194	9/30/91
	AF	5 3 6 4 3 5 7	11/15/94	Aase			
	AG	5 3 4 2 3 0 7	8/30/94	Euteneuer et al.	604	103	9/14/92
	AH	5 3 3 4 1 4 6	8/2/94	Ozasa	604	96	11/8/91
	AI	5 3 3 0 4 2 8	7/19/94	Wang et al.			
	AJ	5 3 3 0 4 2 9	7/19/94	Noguchi et al.	604	96	1/8/93
	AK	5 3 1 8 5 8 7	6/7/94	Davey	606	194	10/2/92
	AL	5 3 1 8 0 4 1	6/7/94	DuBois et al.	607	119	6/30/92
	AM	5 3 1 2 3 5 6	5/17/94	Engelson et al.	604	164	5/22/90
	AN	5 3 0 6 2 4 6	4/26/94	Sahatjian et al.	604	96	
	AO	5 3 0 4 1 9 7	4/19/94	Pinchuk	606	194	10/7/92
	AP	5 3 0 4 1 7 1	4/19/94	Gregory et al.	606	15	2/2/93
	AQ	5 2 7 9 5 9 4	1/18/94	Jackson	604	265	5/23/90
	AR	5 2 7 9 5 6 0	1/18/94	Morrill et al.	604	96	12/23/91
	AS	5 2 7 7 1 9 9	1/11/94	DuBois et al.	128	772	8/10/92
	AT	5 2 7 2 0 1 2	12/21/93	Opolski	428	423.1	1/29/92
	AU	5 2 6 3 9 6 2	11/23/93	Johnson et al.	606	192	11/19/91
	AV	5 2 5 4 0 9 1	10/19/93	Aliahmad et al.	604	96	1/8/91
	AW	5 2 4 8 3 0 5	9/28/93	Zdrahala	604	280	
	AX	5 2 2 6 8 8 0	7/13/93	Martin	604	99	

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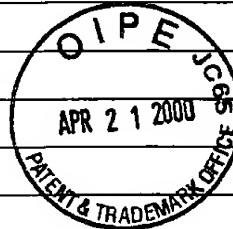
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	BA	5	2	2	3	2	0	5	6/29/93	Jackowski et al.	264	521	
	BB	5	2	0	9	7	2	8	5/11/93	Kraus et al.	604	96	
	BC	5	2	0	1	7	0	6	4/13/93	Noguchi et al.	604	96	
	BD	5	1	9	5	9	7	2	3/23/93	Inoue	604	103	
	BE	5	1	9	5	9	7	0	3/23/93	Gahara	604	96	
	BF	5	1	9	2	2	9	6	3/93	Bhate et al.			
	BG	5	1	8	3	6	1	3	2/2/93	Edwards	264	171	
	BH	5	1	7	9	1	7	4	1/12/93	Elton	525	409	
	BI	5	1	7	6	6	9	7	1/5/93	Hasson et al.	606	191	
	BJ	5	1	7	1	2	2	1	12/15/92	Samson	604	96	
	BK	5	1	6	3	9	4	9	11/17/92	Bonatti	606	192	
	BL	5	1	6	0	3	2	1	11/3/92	Sahota	604	96	
	BM	5	1	5	6	8	5	7	10/20/92	Wang et al.	425	130	
	BN	5	1	4	7	3	0	2	9/15/92	Euteneuer et al.	604	103	
	BO	5	1	3	7	5	1	2	8/11/92	Burns et al.	606	96	
	BP	5	1	2	5	9	1	3	6/30/92	Quakenbush			
	BQ	5	1	1	6	3	1	8	5/26/92	Hillstead			
	BR	5	1	1	4	4	2	3	5/19/92	Kasprzyk et al.			
	BS	5	1	0	8	4	2	0	4/28/92	Marks	606	213	
	BT	5	1	0	8	4	1	5	4/28/92	Pinchuk et al.	606	194	
	BU	5	1	0	2	4	1	6	4/7/92	Rock	606	194	
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	BW	5	1	0	0	7	2	1	3/31/92	Akao	428	218	
	BX	5	1	0	0	3	8	6	3/92	Inoue			

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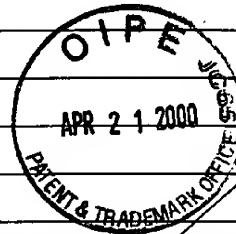
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## U.S. PATENT DOCUMENTS

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CA	5	1	0	0	3	8	1	3/31/92	Burns	604	96	
CB	5	0	9	4	7	9	9	3/10/92	Takashige et al.	264	514	
CC	5	0	9	3	1	6	4	3/1992	Bauer et al.			
CD	5	0	9	1	2	0	5	2/25/92	Fan	427	2	
CE	5	0	9	0	9	5	8	2/25/92	Sahota	604	98	
CF	5	0	8	7	2	4	6	2/11/92	Smith	604	96	
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CK	5	0	7	5	1	5	2	12/24/91	Isukuda et al.	428	204	
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CN	5	0	7	1	6	8	6	12/10/91	Genske et al.	428	35.7	
CO	5	0	7	1	4	0	6	12/10/91	Jang	604	96	
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CQ	5	0	5	9	2	6	9	10/22/91	Hu et al.	156	244.11	
CR	5	0	5	7	1	0	6	10/15/91	Kasevich et al.	606	33	
CS	5	0	5	7	0	9	2	10/15/91	Webster, Jr.	604	282	
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CU	5	0	4	2	9	8	5	8/27/91	Elliott et al.	606	192	
CV	5	0	4	1	1	2	5	8/20/91	Montano, Jr.	606	192	
CW	5	0	4	1	1	0	0	8/20/91	Rowland et al.	604	265	
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CY	5	0	3	7	3	9	2	8/6/91	Hillstead	604	96	



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	DA	5 0 2 6 6 0 7	6/25/91	Kiezulas			
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	DC	5 0 1 5 2 3 1	5/14/91	Keith et al.	604	96	
	DD	5 0 0 6 1 1 9	4/19/91	Acker et al.	606	27	
	DE	5 0 0 2 5 5 6	3/26/91	Ishida et al.	606	191	
	DF	5 0 0 2 5 3 1	3/26/91	Bonzel	604	96	
	DG	5 0 0 0 7 3 4	3/19/91	Boussignac et al.	604	96	
	DH	4 9 9 5 8 6 8	3/26/91	Brazier	604	105	
	DI	4 9 9 4 0 7 2	2/19/91	Bhate et al.			
	DJ	4 9 9 4 0 4 7	2/19/91	Walker et al.	606	264	
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	EC	4	9	2	1	4	7	9	5/1/90	Grayzel			
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	EF	4	9	0	6	2	4	1	3/6/90	Noddin et al.	606	194	
	EG	4	9	0	6	2	3	7	3/6/90	Johansson et al.	604	265	
	EH	4	9	0	0	3	0	3	8/13/90	Lemelson	604	54	
	EI	4	8	9	8	5	9	1	2/6/90	Jang et al.	604	282	
	EJ	4	8	9	6	6	6	9	1/30/90	Bhate et al.	606	194	
	EK	4	8	8	6	0	6	2	12/12/89	Wiktor	128	343	
	EL	4	8	8	0	6	8	2	11/14/89	Hazelton et al.	428	152	
	EM	4	8	7	8	4	9	5	11/7/89	Grayzel	128	344	
	EN	4	8	7	1	0	9	4	10/3/89	Gall et al.	222	386	
	EO	4	8	6	9	2	6	3	9/26/89	Segal et al.	128	692	
	EP	4	8	6	8	0	4	4	9/19/89	Tanaka et al.	428	304.4	
	EQ	4	8	6	3	4	2	6	9/5/89	Ferragamo et al.	604	93	
	ER	4	8	5	7	3	9	3	8/15/89	Kato et al.	428	289	
	ES	4	8	5	6	5	1	6	8/15/89	Hillstead	128	343	
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	EV	4	8	3	8	8	7	6	6/13/89	Wong et al.	604	265	
	EW	4	8	3	5	0	8	9	5/83	Bonnebat			
	EX	4	8	3	4	7	2	1	5/30/89	Onohara et al.	604	266	
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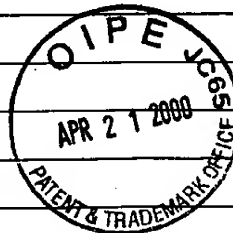
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EXAMINER INITIAL	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FA	4	8	2	1	7	2	2	4/18/89	Miller et al.	128	344	
FB	4	8	1	9	7	5	1	4/11/89	Shimada et al.	128	344	
FC	4	8	1	8	5	9	2	4/4/89	Ossian	428	216	
FD	4	8	1	6	3	3	9	3/28/89	Tu et al.	428	421	
FE	4	8	1	4	2	3	1	3/21/89	Onohara et al.	428	425.5	
FF	4	8	1	1	7	3	7	3/14/89	Rydell	128	344	
FG	4	8	0	7	6	2	6	2/28/89	McGirr			
FH	4	8	0	1	2	9	7	1/31/89	Mueller	604	280	
FI	4	8	0	0	8	8	2	1/31/89	Gianturco	128	343	
FJ	4	7	9	6	6	2	9	1/10/89	Grayzel	128	344	
FK	4	7	9	5	4	5	8	1/3/89	Ragan	623	1	
FL	4	7	9	0	8	3	1	12/13/88	Skribiski			
FM	4	7	8	7	3	8	8	11/29/88	Hofmann	128	344	
FN	4	7	8	6	5	5	6	11/22/88	Hu et al.	428	412	
FO	4	7	7	8	6	9	7	10/1/88	Geneske et al.			
FP	4	7	7	6	3	3	7	10/11/88	Palmaz	128	344	
FQ	4	7	7	1	7	7	8	9/20/88	Mar	128	344	
FR	4	7	7	1	7	7	6	9/20/88	Powell et al.	128	344	
FS	4	7	6	3	6	5	3	8/16/88	Rockey	128	344	
FT	4	7	6	2	5	8	9	8/9/88	Akiyama et al.	156	307.3	
FU	4	7	6	2	1	3	0	8/9/88	Fogarty et al.	128	348.1	
FV	4	7	6	2	1	2	9	8/9/88	Bonzel	128	344	
FW	4	7	5	3	7	6	5	6/28/88	Pande	264	149	
FX	4	7	5	1	9	2	4	6/21/88	Hammerschmidt et al.	128	207.15	
FY	4	7	4	3	2	5	7	5/19/88	Tormala et al.	623	16	



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## U.S. PATENT DOCUMENTS

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	GA	4	7	3	7	2	1	9	4/12/88	Taller et al.	156	215	
	GB	4	7	3	2	1	5	2	3/22/88	Wallsten et al.	128	343	
	GC	4	7	2	3	9	3	6	2/9/88	Buchbinder et al.	604	95	
	GD	4	7	1	0	1	8	1	12/1/87	Fuqua	604	265	
	GE	4	7	0	6	6	7	0	11/17/89	Andersen et al.	128	344	
	GF	4	7	0	5	7	0	9	11/10/87	Vailancourt			
	GG	4	7	0	5	5	1	7	11/10/87	DiPesa, Jr.	623	12	
	GH	4	7	0	5	5	0	2	11/10/87	Patel	604	49	
	GI	4	7	0	2	2	5	2	10/87	Brooks et al.			
	GJ	4	6	9	9	6	1	1	10/13/87	Bowden			
	GK	4	6	9	3	2	4	3	9/15/87	Buras	128	207.15	
	GL	4	6	8	6	1	2	4	8/11/87	Onohara et al.	428	35	
	GM	4	6	8	5	4	5	8	8/11/87	Lepkron	128	303.1	
	GN	4	6	8	5	4	4	7	8/11/87	Iversen et al.	128	1R	
	GO	4	6	8	1	5	6	4	7/21/87	Landreneau	604	97	
	GP	4	6	7	7	0	1	7	6/30/87	DeAntonis et al.	428	214	
	GQ	4	6	6	4	6	5	7	5/12/87	Williamitis et al.	604	265	
	GR	4	6	6	0	5	6	0	4/28/87	Klein	128	344	
	GS	4	6	5	7	0	2	4	4/14/87	Coneys	128	658	
	GT	4	6	5	6	0	7	0	4/7/87	Nyberg et al.	428	36	
	GU	4	6	5	5	7	7	1	4/7/87	Wallsten	623	1	
	GV	4	6	5	5	7	4	5	4/7/87	Corbett	604	49	
	GW	4	6	5	1	7	2	1	3/24/87	Mikulich et al.	128	79	
	GX	4	6	5	0	4	6	6	3/17/87	Luther	604	95	
	GY	4	6	4	8	8	7	1	3/10/87	Jacob	604	149	
	GZ	4	6	4	2	2	6	7	2/10/87	Creasy et al.	428	413	

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HA	4 6 4 0 8 5 2	2/3/87	Ossian	428	35	
HB	4 6 3 8 8 0 5	1/27/87	Powell	128	344	
HC	4 6 3 7 3 9 6	1/20/87	Cook	128	344	
HD	4 6 3 6 4 4 2	1/13/87	Beavers et al.			
HE	4 6 3 6 3 4 6	1/13/87	Gold et al.			
HF	4 6 3 4 6 1 5	1/6/87	Versteegh et al.	428	36	
HG	4 6 2 7 4 3 6	12/9/86	Leckrone	128	303.1	
HH	4 6 1 4 1 8 8	9/30/86	Bazell et al.	128	348.1	
HI	4 6 1 3 5 1 7	9/23/86	Williams et al.	427	2	
HJ	4 6 1 0 6 6 2	9/9/86	Weikl et al.	604	53	
HK	4 6 0 6 3 4 7	8/19/86	Fogarty et al.	128	344	
HL	4 5 9 6 5 6 3	6/24/86	Pande	604	264	
HM	4 5 8 5 0 0 0	4/29/86	Hershenson	128	345	
HN	4 5 8 2 7 6 2	4/15/86	Onohara et al.	428	447	
HO	4 5 8 1 3 9 0	4/8/86	Flynn	523	112	
HP	4 5 7 9 8 7 9	4/1/86	Flynn	523	112	
HQ	4 5 7 8 0 2 4	3/25/86	Sicka et al.	425	114	
HR	4 5 7 6 7 7 2	3/18/86	Carpenter	264	154	
HS	4 5 7 6 1 4 2	3/18/86	Schiff	128	10	
HT	4 5 7 3 9 6 6	3/4/86	Weikl et al.	604	53	
HU	4 5 7 3 4 7 0	3/4/86	Samson et al.	128	344	
HV	4 5 7 2 1 8 6	2/25/86	Gould et al.	128	341	
HW	4 5 5 9 9 5 1	12/24/85	Dahl et al.	128	642	
HX	4 5 5 3 5 4 5	11/19/85	Maass et al.	128	341	
HY	4 5 5 1 2 9 2	11/5/85	Fletcher et al.	264	139	

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	IA	4	5	4	0	4	0	4	9/10/85	Wolvek	604	96	
	IB	4	5	3	1	9	9	7	7/30/85	Johnston	156	498	
	IC	4	5	2	1	5	6	4	6/4/85	Solomon et al.	525	54.1	
	ID	4	4	9	7	0	7	4	2/5/85	Rey et al.	3	1	
	IE	4	4	8	4	9	7	1	11/27/84	Wang	156	244.14	
	IF	4	4	7	9	4	9	7	10/30/84	Fogarty et al.	128	344	
	IG	4	4	7	2	1	2	9	9/18/84	Siard	425	381	
	IH	4	4	5	6	0	1	1	6/26/84	Warnecke	128	325	
	II	4	4	5	1	2	5	6	5/29/84	Weikl et al.	128	325	
	IJ	4	4	3	9	3	9	4	3/27/84	Appleyard	264	535	
	IK	4	4	3	4	7	9	7	3/8/84	Silander	128	343	
	IL	4	4	2	4	2	4	2	1/3/84	Barbee	428	35	
	IM	4	4	2	3	7	2	5	1/3/84	Baran et al.	128	207.15	
	IN	4	4	2	2	4	4	7	12/27/83	Schiff	128	10	
	IO	4	4	1	7	5	7	6	11/29/83	Baran	128	207.15	
	IP	4	4	1	1	0	5	5	10/25/83	Simpson et al.			
	IQ	4	4	0	9	3	6	4	10/11/83	Schmukler et al.			
	IR	4	4	0	6	6	5	6	9/27/83	Hattler et al.	604	280	
	IS	4	4	0	6	6	5	3	9/83	Nunez	604	103	
	IT	4	4	0	3	6	1	2	9/13/83	Fogarty	128	344	
	IU	4	3	8	5	0	8	9	5/24/83	Bonnebat et al.	428	35	
	IV	4	3	7	8	8	0	3	4/5/83	Takagi et al.	604	280	
	IW	4	3	4	6	6	9	8	8/31/82	Hanson et al.	128	10	
	IX	4	3	3	8	9	4	2	7/13/82	Fogarty			
	IY	4	3	3	0	4	9	7	5/18/82	Agdanowski	264	150	
	IZ	4	3	2	7	7	3	6	5/4/82	Inoue	128	349B	

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JA	4	3	2	6	5	3	2	4/27/82	Hammar	128	3498		
JB	4	3	2	4	2	6	2	4/13/82	Hall	128	756		
JC	4	3	2	3	0	7	1	4/6/82	Simpson et al.	128	343		
JD	4	3	0	6	9	9	8	12/22/81	Wenzel et al.	260	13		
JE	4	3	0	1	0	5	3	11/17/81	Wolfrey	260	29.2		
JF	4	3	0	0	5	5	0	11/17/81	Gandi et al.	128	207.18		
JG	4	2	9	9	2	2	6	11/10/81	Banka	128	344		
JH	4	2	9	6	1	5	6	10/20/81	Lustig et al.	428	35		
JI	4	2	9	2	9	7	4	10/6/81	Fogarty et al.	128	344		
JJ	4	2	8	2	8	7	6	8/11/81	Flynn	128	349		
JK	4	2	7	1	8	3	9	6/9/81	Fogarty et al.	128	344		
JL	4	2	6	5	2	7	6	5/5/81	Matada et al.	138	177		
JM	4	2	6	3	1	8	8	4/21/81	Hampton et al.	260	29.2		
JN	4	2	6	1	3	3	9	4/14/81	Hanson et al.	128	10		
JO	4	2	5	8	7	8	9	3/17/81	Suzuki et al.	428	35		
JP	4	2	5	1	3	0	5	2/81	Becker et al.	264	515		
JQ	4	2	4	4	9	1	4	1/13/81	Ranalli et al.	264	515		
JR	4	2	3	8	4	4	3	12/9/80	Levy	264	210.7		
JS	4	2	3	3	0	2	2	11/11/80	Brady et al.	425	525		
JT	4	2	2	2	3	8	4	9/16/80	Birtwell	128	3498		
JU	4	2	1	3	4	6	1	7/22/80	Pevsner	128	348		
JV	4	1	9	8	9	8	1	4/22/80	Sinnreich	128	344		
JW	4	1	9	5	6	3	7	4/1/80	Gruntzig et al.	128	348		
JX	4	1	8	3	1	0	2	1/15/80	Guiset	3	1.4		
JY	4	1	8	2	4	5	7	1/8/80	Yamada	215	1		

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	KA	4	1	7	4	7	8	3	11/20/79	Abe et al.	215	1C	
	KB	4	1	4	4	2	9	8	3/13/79	Lee	264	532	
	KC	4	1	4	1	3	6	4	2/27/79	Schultze	128	349B	
	KD	4	1	4	0	1	2	6	2/20/79	Choudhury	128	325	
	KE	4	1	0	5	0	2	2	8/8/78	Antoshkiw et al.	128	2.05	
	KF	4	0	8	5	7	5	7	4/25/78	Pevsner	128	325	
	KG	4	0	7	9	8	5	0	3/21/78	Suzuki et al.	215	1C	
	KH	4	0	6	1	7	0	7	12/6/77	Nohtomi et al.	264	95	
	KI	4	0	4	7	8	6	8	9/13/77	Kudo et al.	425	133.1	
	KJ	4	0	3	5	5	3	4	7/12/77	Nyberg	428	36	
	KK	4	0	1	1	1	8	9	3/8/77	Keil	260	33.6	
	KL	4	0	0	3	3	8	2	1/75	Glover et al.	156	16	
	KM	3	9	9	6	9	3	8	12/14/76	Clark, III	128	348	
	KN	3	9	6	2	5	1	9	6/8/76	Rusch et al.	428	409	
	KO	3	9	5	9	4	2	6	5/25/76	Seefluth	264	94	
	KP	3	9	2	4	6	3	4	12/9/75	Taylor et al.	128	349B	
	KQ	3	8	8	9	6	8	5	6/17/75	Miller, Jr. et al.	128	348	
	KR	3	8	3	7	3	4	7	9/24/74	Tower	128	404	
	KS	3	8	3	3	0	0	4	9/3/74	Vazquez et al.	128	349B	
	KT	3	8	1	4	1	3	7	6/4/74	Martinez	138	103	
	KU	3	8	0	7	4	0	8	4/30/74	Summers			
	KV	3	7	9	9	1	7	2	3/26/74	Szpur	128	349R	
	KW	3	7	7	1	5	2	7	11/13/73	Ruisi			
	KX	3	7	6	9	9	8	4	11/6/73	Muench	128	404	

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LA		3	7	4	5	1	5	0	7/10/73	Corsover	260	75	
LB		3	7	3	3	3	0	9	5/15/73	Wyeth et al.	260	75	
LC		3	7	3	1	6	9	2	5/8/73	Goodyear	128	351	
LD		3	7	0	7	1	5	1	12/26/72	Jackson	128	351	
LE		3	7	0	7	1	4	6	12/26/72	Cook et al.			
LF		3	6	1	8	6	1	4	11/9/71	Flynn	128	348	
LG		3	5	6	2	3	5	2	2/9/71	Nyilas	260	824	
LH		3	5	6	1	4	9	3	2/9/71	Maillard	138	141	
LI		3	5	4	3	7	5	9	12/1/70	McWhorter	128	349	
LJ		3	5	4	3	7	5	8	12/1/70	McWhorter	128	349	
LK		3	5	3	9	6	7	4	11/10/70	Dereniuk et al.	264	138	
LL		3	4	3	2	5	9	1	3/11/69	Heffelfinger	264	288	
LM		3	4	2	6	7	4	4	2/11/69	Ball	128	184	
LN		3	3	4	8	5	4	2	10/24/67	Jackson	128	98	
LO		3	3	0	4	3	5	3	2/14/67	Harauneian	264	349	
LP		3	2	9	2	6	2	7	12/20/66	Harauneian	128	349	
LQ		3	1	7	3	4	1	8	3/16/65	Baran	128	351	
LR		3	0	5	3	2	5	7	9/11/62	Birtwell	128	349	
LS		3	0	4	5	6	7	7	7/24/62	Wallace	128	349	
LT		2	9	8	1	2	5	4	4/25/61	Vanderbilt	128	350	
LU		2	9	3	6	7	6	0	5/17/60	Gants	128	349	
LV		2	8	2	3	4	2	1	2/18/58	Scarlett	18	57	
LW		2	7	9	9	2	7	3	7/16/57	Oddo	128	325	
LX		2	6	9	0	5	9	5	10/5/54	Raiche	18	59.7	

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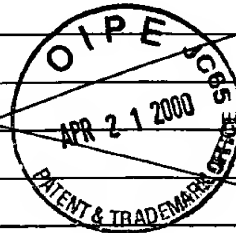
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MA	2 6 8 8 3 2 9	9/7/54	Wallace	128	349	
MB	2 6 1 6 4 2 9	11/4/52	Merenlender	128	350	
MC	2 5 4 8 6 0 2	4/10/51	Greenburg	128	4	
MD	2 4 9 9 0 4 5	2/28/50	Walker et al.	128	261	
ME	1 6 9 0 9 9 5	11/6/28	Pratt			
MF	1 6 4 3 2 8 9	9/20/27	Peglay			
MG	R E 3 3 5 6 1	3/26/91	Levy	428	36.92	
MH						



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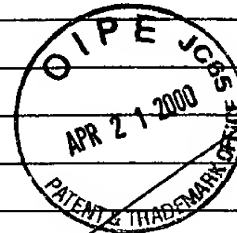
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		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	NA	998,035	1/14/52	France				
	NB	2328482	5/20/77	France				
	NC	36 38 828 A1	5/19/88	Germany				
	ND	31 24 198 A1	4/29/92	Germany				
	NE	28 48 854 A1	5/23/79	Germany				
	NF	0 461 474 A1	12/18/91	Europe				
	NG	0 457 456 A1	11/21/91	Europe				
	NH	0 439 202 A2	7/31/91	Europe				
	NI	0 428 479 A1	5/22/91	Europe				
	NJ	0 419 291 A1	3/27/91	Europe				
	NK	0 414 350 B1	3/7/90	Europe				
	NL	0 383 429	8/22/90	Europe				
	NM	0 380 102 A1	8/1/90	Europe				
	NN	0 359 489 A2	3/21/90	Europe				
	NO	0 358 445 A2	3/14/90	Europe				
	NP	0 387 562	3/7/90	Europe				
	NQ	0 329 041 A2	8/23/89	Europe				
	NR	0 303 487 A2	2/15/89	Europe				
	NS	0 292 587 A1	11/30/88	Europe				
	NT	0 276 908 A1	8/3/88	Europe				



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Robert N. HamlinFILING DATE  
August 5, 1996

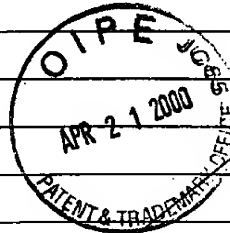
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## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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	OA	0 266 957 A2	5/11/88	Europe				
	OB	0 201 331 A2	11/12/86	Europe				
	OC	0 174 206 A2	3/12/86	Europe				
	OD	0 166 998	1/8/86	Europe				
	OE	0 101 216 A2	2/22/84	Europe				
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	OG	WO 91/17788	11/28/91	PCT				
	OH	WO 91/04068	4/4/91	PCT				
	OI	WO 84/01327	4/12/84	PCT				
	OJ	2 078 114 A	1/6/82	Great Britain				
	OK	2 077 111 A	12/16/81	Great Britain				
	OL	2 140 437 A	11/28/84	Great Britain				
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	ON	1,556,242	11/21/79	Great Britain				
	OO	693,244	6/24/53	Great Britain				
	OP	1,600,963	10/21/81	Great Britain				
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	OR	2209121	5/89	Great Britain				
	OS	2,130,893	5/31/84	Great Britain				
	OT	2 163 386 A	2/26/86	Great Britain				
	OU	1477423	5/7/89	Soviet Union				
	OV	069826 A	1/30/84	Soviet Union				
	OW	1477423	5/89	Soviet Union				



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				FILING DATE August 5, 1996				
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	PA	63 087219	4/18/88	Japan (English Abstract)				
	PB	58 38778	3/7/83	Japan				
	PC	53 042256	4/17/78	Japan (English Abstract)				
	PD	51 084877	7/24/76	Japan				
	PE	50 75256	6/20/75	Japan (English Abstract)				
	PF	4 34590	2/5/92	Japan				
	PG	3 277374	12/9/91	Japan				
	PH	5345353	4/78	Japan				
	PI	2 43036	2/13/90	Japan				
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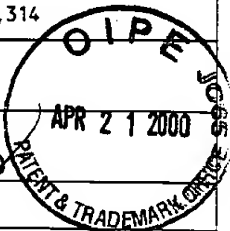
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QD	Article from Plastics and Rubber International, "Medical Uses Of Polymers", Vol. 11, No. 3, June 1986
QE	Articles from Plastics Technology, "Multi-Lumen Medical Tubing Line" and "Satellite Extruders for Coextrusion", pp. 39-41, August, 1987
QF	"Award Caps Bottle's Introduction", USA TODAY, Friday, October 7, 1983
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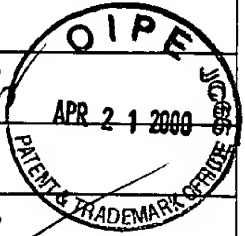
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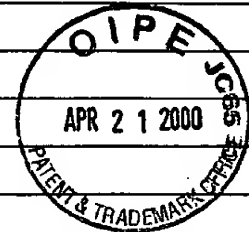
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